

PROJECT:	Lee's Summit - Farmers Market
LOCATION:	Lees Summit MO
CLIENT:	GLMV
JOB NUMBER:	2150003907
DATE:	August 1, 2023
CALCULATED BY:	ML

IPC FIXTURE LOADING

FIXTURE TYPE	QTY	D.F.U. (EA)	TOTAL D.F.U.	HOT S.F.U. (EA)	COLD S.F.U. (EA)	COMBINED S.F.U. (EA)	TOTAL S.F.U. (HOT)	TOTAL S.F.U. (COLD)	TOTAL SERVICE S.F.U.
BATHROOM GROUP (1.6 GPF FLUSH TANK)		5.0	0.0	1.50	2.70	3.60	0	0	0.0
BATHROOM GROUP (3.5 GPF FLUSH TANK)		6.0	0.0	3.00	6.00	8.00	0	0	0.0
BATHTUB (PRIVATE)		2.0	0.0	1.00	1.00	1.40	0	0	0.0
BIDET		1.0	0.0	1.50	1.50	2.00	0	0	0.0
PRIVATE CLOTHES WASHER RESIDENTIAL		2.0	0.0	1.00	1.00	1.40	0	0	0.0
PUBLIC CLOTHES WASHER RESIDENTIAL		3.0	0.0	3.00	3.00	4.00	0	0	0.0
CLINICAL SERVICE SINK		6.0	0.0	1.50	8.00	8.00	0	0	0.0
DISHWASHER (RESIDENTIAL)		2.0	0.0	1.40	0.00	1.40	0	0	0.0
DRINKING FOUNTAIN	2	0.5	1.0	0.00	0.25	0.25	0	0.5	0.5
PRIVATE SINK (BAR, KITCHEN OR BREAKROOM)		2.0	0.0	1.00	1.00	1.40	0	0	0.0
PUBLIC SINK (KITCHEN OR BREAKROOM)		2.0	0.0	3.00	3.00	4.00	0	0	0.0
SINK (FLUSHING RIM)		6.0	0.0	3.00	3.00	4.00	0	0	0.0
SINK (WASH FOUNTAIN PER HEAD)		2.0	0.0	1.00	1.00	1.40	0	0	0.0
PRIVATE LAVATORY		1.0	0.0	0.50	0.50	0.70	0	0	0.0
PUBLIC LAVATORY	18	1.0	18.0	1.50	1.50	2.00	27	27	36.0
SERVICE SINK (MOP BASIN)	1	3.0	3.0	2.25	2.25	3.00	2.25	2.25	3.0
PRIVATE LAUNDRY TUB		2.0	0.0	2.00	2.00	3.00	0	0	0.0
FLOOR DRAIN	8	2.0	16.0	0.00	0.00	0.00	0	0	0.0
SHOWER (PUBLIC - EACH HEAD)		2.0	0.0	3.00	3.00	4.00	0	0	0.0
SHOWER (PRIVATE- ONE HEAD)		2.0	0.0	1.00	1.00	1.40	0	0	0.0
URINAL (1.0 GPF)		2.0	0.0	0.00	5.00	5.00	0	0	0.0
URINAL (0.125 GPF)	6	2.0	12.0	0.00	2.00	2.00	0	12	12.0
URINAL (WATERLESS)		0.5	0.0	0.00	0.00	0.00	0	0	0.0
WALL HYDRANT	4	0.0	0.0	0.00	5.00	5.00	0	20	20.0
WALL HYDRANT - NON-FREEZE	5	0.0	0.0	0.00	5.00	5.00	0	25	25.0
PRIVATE / PUBLIC WC (1.6 GPF FLUSH TANK)		4.0	0.0	0.00	2.00	2.00	0	0	0.0
PRIVATE WATER CLOSET (1.6 GPF FLUSH TANK)		3.0	0.0	0.00	2.20	2.20	0	0	0.0
PUBLIC WATER CLOSET (1.6 GPF FLUSH TANK)		4.0	0.0	0.00	5.00	5.00	0	0	0.0
PRIVATE WATER CLOSET (1.6 GPF FLUSH VALVE)		3.0	0.0	0.00	6.00	6.00	0	0	0.0
PUBLIC WATER CLOSET (1.6 GPF FLUSH VALVE)	19	4.0	76.0	0.00	10.00	10.00	0	190	190.0
PUBLIC WATER CLOSET (3.5 GPF FLUSH VALVE)		6.0	0.0	0.00	10.00	10.00	0	0	0.0
MISC. CONTINUOUS FLOW (GPM)		0.13	0.0	0.00	0.13	0.13	0	0	0.0

SPECIALTY KITCHEN EQUIP.

COMMERCIAL WASHER EXTRACTOR		6.0	0.0	7.50	7.50	10.00	0	0	0.0
DISPOSER (2" TRAP)		3.0	0.0	0.00	2.00	2.00	0	0	0.0
DISPOSER (3" TRAP)		5.0	0.0	0.00	2.00	2.00	0	0	0.0
PRE-SCRAPPER		2.0	0.0	1.50	1.50	2.00	0	0	0.0
SINK (BAR) (1-1/2" IW)		2.0	0.0	1.50	1.50	2.00	0	0	0.0
SINK (DUMP) (1-1/2" IW)		2.0	0.0	1.50	1.50	2.00	0	0	0.0
SINK (HAND) (1-1/2" IW)	1	2.0	2.0	1.50	1.50	2.00	1.5	1.5	2.0
SINK (PREP / VEGGIE) (2" IW)		3.0	0.0	1.50	1.50	2.00	0	0	0.0
SINK (2 COMPARTMENT) (2" IW)		3.0	0.0	1.50	1.50	2.00	0	0	0.0
SINK (3 COMPARTMENT) (2" IW)	1	3.0	3.0	3.00	3.00	4.00	3	3	4.0
DISHWASHER (RESTAURANT) (2" IW)		3.0	0.0	6.00	0.00	6.00	0	0	0.0
ICE MACHINE (3/4" IW)		0.5	0.0	0.00	1.00	1.00	0	0	0.0
COFFEE MAKER (3/4" IW)		0.5	0.0	0.00	0.50	0.50	0	0	0.0
TEA MAKER (3/4" IW)		0.5	0.0	0.00	0.50	0.50	0	0	0.0
CAPPUCCINO MACHINE (3/4" IW)		0.5	0.0	0.00	0.50	0.50	0	0	0.0
KETTLE (2" IW)		3.0	0.0	1.50	1.50	2.00	0	0	0.0
CARBONATOR		0.5	0.0	0.00	0.50	0.50	0	0	0.0
HOT FOOD TABLE (3/4" IW)		0.5	0.0	0.75	0.75	1.00	0	0	0.0
DIPPER WELL (3/4" IW)		0.5	0.0	0.00	0.75	0.75	0	0	0.0

TOTAL UNITS:	65		131.0				33.8	281.3	292.5
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Total GPM: 50.61

24.299 106.24 108

THE FIXTURE UNIT LOADS IN THIS SCHEULE
ARE FOR PUBLIC AND PRIVATE USE.

Total WSFU

Total GPM

BELOW ARE GUIDELINES FOR SIZING WATER SERVICE LINES & SANITARY BUILDING DRAINS

TOTAL BUILDING DRAIN FIXTURE UNITS:	131	4.0	PIPE SIZE: (MIN SANITARY BUILDING DRAIN)
TOTAL WATER SERVICE FIXTURE UNITS ¹ :	292.5	3.0	PIPE SIZE: (TYPE K CU @ 8 FPS, PRIMARILY FLUSH VALVES)
TOTAL WATER SERVICE FIXTURE UNITS ¹ :	292.5	3.0	PIPE SIZE: (TYPE K CU @ 8 FPS, PRIMARILY FLUSH TANKS)
TOTAL HOT WATER FIXTURE UNITS:	33.8	1.5	PIPE SIZE: (TYPE L CU @ 5 FPS, PRIMARILY FLUSH TANKS)

Pipe Size @ 4.90 FPS full flow